TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243, 1-888-891-TDEC (8332)

Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	AGC Flat Glass, Greenland Plant, Church Hill, TN 37642	TMSP Number:	TNR050000
Contact Person:	Butch Hatcher	Phone Number:	423-357-2492
This report is submitted for the following calendar year (e.g. 2013):	2016	Outfall Number:	001
List all TMSP sectors which apply to discharge from this outfall:	E	Sample Date:	11/29/16

LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75		Magnesium, Total	0.064	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	
COD	120		Phenols	0.016	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	
Iron, Total	5.0		Total Suspended Solids (TSS)	150	35.3
Lead, Total	0.156		Zinc, Total	0.395	

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Don Frawley	AGC Greenland Plant Manager	Don Frawley	1/3/17
Permittee name (print or type)	Official Title	Signature	Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at http://www.tn.gov/environment/permits/tmsp.shtml) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use ½ of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov

OUTFALL 004

Collected date/time: 11/29/16 09:05

SAMPLE RESULTS - 03

L875172

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	35.3		2.50	1	11/30/2016 16:22	WG930763

Chain of Custody Page ___ of ___

ESC LAB SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# LB75172
C055

AGC Flat Glass North Amer- Greenland 600 AFG Rd. Church Hill, TN 37642	**Billing Information:** Attn: Accounts Payable 600 AFG Rd. Church Hill, TN 37642
Report to: Lucas Hughes	Email To: Lucas.Hughes@us.agc.com,James.Hatcher@us.agc.
Project Description: Annual SW Samples	City/State Collected:
Phone: 423-279-1526 Fax: 423-202-8928	Client Project # / Lab Project #: AFGGREEN-HUGHES
Collected by (print): L. Hughes	Site/Facility ID # / P.O. #: 1162380 OI
Collected by (signature): Immediately Packed on Ice N ___ Y ___	Rush? (Lab MUST Be Notified) ___ Same Day 200% ___ Next Day 100% ___ Two Day 50% ✓ Three Day 25%
	Date Results Needed Email? ___No X_Yes FAX? ___No ___Yes

Acctnum: AFGGREEN
Template: T110099
Prelogin: P542930
TSR: 650 - Linda Cashman
PB:
Shipped Via: FedEX Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TCLP Selenium HgCrNoPres	TSS								Item /Contaminant	Sample # (lab only)
Imp 001A	Grab	TCLP SW	N/A	11/29/16	9:00	1	X	X									-01
Imp 002	↓	TCLP	↓	↓	8:55	1	X	X									02
Outfall 004	↓	TCLP	↓	↓	9:05	1	X	X									03
		TCLP				1	X										
		TCLP				1	X										
		TCLP				1	X										
		TCLP				1	X										
		TCLP				1	X										
		TCLP				1	X										
		TCLP				1	X										

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Condition: (lab use only) JW 7 COC

COC Seal Intact: ✓ Y ___ N ___ NA

pH Checked: NCF:

Relinquished by: (Signature) Lucas Hughes	Date: 11/29/16	Time: 1200	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Joseph R.

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 2.6 °C Bottles Received: 3 E

Date: 11-30-16 Time: 0811

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Cooler Receipt Form

Client:	AFGGREEN	SDG#	L875172
Cooler Received/Opened On: 11/30/16		Temperature Upon Receipt:	2.6 °c
Received By: Joseph Roberts			
Signature:			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?	✓		
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated. (If yes see attached NCF)			